



203327

Entered
Boyd

**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
POLLUTION REPORT**

I. HEADING**DATE:** October 17, 2002**SUBJECT:** East St. Louis Lead Sites - United Iron and Metal Site, East St. Louis,
St. Clair County, Illinois**FROM:** Kevin Turner, Mike Harris, U.S. EPA OSC, Region 5, ERB, Chicago, IL.

| | |
|--|---------------------------------|
| TO: R. Worley, U.S. EPA, OSWER, Washington D.C. | (worley.ray@epa.gov) |
| R. Karl, U.S. EPA, ERB Chief, Chicago, IL | (karl.richard@epa.gov) |
| B. Bolen, U.S. EPA, Chief Section 2, Chicago, IL | (bolen.bill@epa.gov) |
| B. Messenger, U.S. EPA Chief EFS, Chicago, IL | (messenger.william@epa.gov) |
| V. Mullins, U.S. EPA Enforcement Specialist, Chicago, IL | (mullins.valerie@epa.gov) |
| G. Narsete, U.S. EPA, Public Affairs, Chicago, IL | (narsete.virginia@epa.gov) |
| D. Novak, U.S. EPA, RPM, Chicago, IL | (novak.dion@epa.gov) |
| T. Martin, U.S. EPA, ORC, Chicago, IL | (martin.thomas@epa.gov) |
| J. Maritote, U.S. EPA, Chicago, IL | (maritote.john@epa.gov) |
| J. Haff, U.S. EPA, Gateway Team Leader, Chicago, IL | (haff.janet@epa.gov) |
| B. Everetts, Illinois EPA, Springfield, IL | (bruce.everett@epa.state.il.us) |
| T. Miller, Illinois EPA, Collinsville, IL | (tom.miller@epa.state.il.us) |

POLREP: POLREP #4/Final - Fund Lead Removal**II. BACKGROUND****Site No:** B5Z2**Task Order No:** 113**CERCLIS No:** ILN000508216**Response Authority:** CERCLA**NPL Status:** Non NPL**State Notification:** April 23, 2002**Start Date:** July 22, 2002**Demobilization Date:** October 2, 2002**Completion Date:** October 2, 2002**Status of Action Memorandum:** Signed May 6, 2002**III. SITE INFORMATION****A. Incident Category**

Former Scrap-yard Removal

B. Site Description303 South 11th Street, East St. Louis, St. Clair County, Illinois.**1. Site location**

The United Iron & Metal site is located at 303 South 11th Street in East St. Louis, St. Clair County, Illinois. The site is located north of McCasland Avenue between South 10th and South 11th Streets in an area of vacant parcels, residential, industrial, commercial and institutional properties. A public housing development, various rundown buildings, a large trucking facility, and residential homes surround the former facility. St. Mary's Hospital is located about 0.75 mile northwest of the site. Lincoln Middle School, a children's daycare facility and a community center are all located within 700 feet of the site in an easterly direction.

2. Description of threat

The United Iron & Metal site is located at 303 South 11th Street in East St. Louis, St. Clair County, Illinois. The site is surrounded by residential, industrial, commercial and institutional properties. Lincoln Middle School, a children's daycare facility, and a community center are all located within 700 feet of the site in an easterly direction, and Lilly Freeman Grade School is located approximately 0.75 mile from the Site.

Lead was found wide spread throughout the site with most of the area above the United States Environmental Protection Agency (U.S. EPA) site specific action level of 400 parts per million (ppm) for residential land use scenarios and 1000 ppm for industrial land use. A screening with X-ray fluorescence (XRF) data revealed elevated levels of lead on-site including concentrations of 75,161 ppm, 16,192, and 10,899. The health concerns at this site are related to the uncontrolled access to the property and the evidence of trespassing on the property by the local population, potentially exposing young children, pregnant women and elderly individuals to high levels of lead contamination. Approximately 20 rusty 55-gallon drums were observed scattered within the interior of dilapidated building. In addition, evidence of illegal dumping of various household wastes and rubbish was on Site.

3. Preliminary Assessment/Site Inspection Results

Site assessment activities were conducted at the United Iron and Metal site on several occasions in the year 2001. Through a grant given by the U.S. EPA's Gateway Initiative, the Illinois Department of Public Health (IDPH) first collected soil lead data associated with this site and the surrounding residential properties. IDPH shared their data with St. Mary's Hospital, the Metro-East Lead Collaborative Partnership and the U.S. EPA. Further site characterization and data collection was conducted through funding supplied to the U.S. Army Corps of Engineers (ACOE) from the U.S. EPA, Region 5, Brownfields Section. An ACOE field crew took XRF spectrometer readings. Lead was found throughout the former facility and surrounding neighborhood with much of the area above the U.S. EPA lead site specific action level of 400 parts per million (ppm) for residential land use and 1,000 ppm for industrial scenarios.

IV. SITE INFORMATION

A. Situation

1. Response activities to date

Work proceeded with the following.

- Although the lead levels often exceed the site specific action level, the toxicity characteristic leaching procedure (TCLP) analysis from the site assessment was well below the regulatory level of 5 mg/l. Therefore, excavated soils hauled from the site are being considered low level lead contaminated soil,
- All grids were excavated to clean after screening with the XRF showed levels below the U.S. EPA lead site specific action level 1,000 ppm for industrial scenarios;
- The site project was extended to a surrounding residential area after additional testing revealed elevated lead levels within the soil above U.S. EPA site specific residential action level of 400 milligrams per kilograms (mg/kg). After property owners signed an access agreement Superfund Technical Assessment Team (START) member Hughes screened the properties with the XRF spectrometer. If the yard was found above the U.S. EPA residential action level they were marked for excavation,
- Before excavation began at a residence, the property and home video documented by START to protect against any possible damage claims,
- A total of 9,727 tons of low level lead contaminated soils were hauled from the site and residential areas,
- The site and residential areas were backfilled with 8,276 tons of clean soil and grass seed planted and then the property was restored back to its original configuration,

2. Removal activities to date:

- Although the lead levels often exceed the Site specific action level, the toxicity characteristic leaching procedure (TCLP) analysis from the Site assessment was well below the regulatory level of 5 (mg/L) milligram per liter. Therefore, excavated soils hauled from the Site are being considered low level lead contaminated soil,
- An XRF unit was used for confirmation of cleaned out grids and residential areas,
- A total of 9,727 tons of low level lead contaminated soils were hauled from the site and residential areas,
- Five hundred and nineteen tires of various sizes were found and hauled from site. Tire removal was coordinated through the Illinois EPA Tire Program,
- 3 homes were screened and 3 needed to be excavated;
- 45 empty lots were screened and 45 needed to be excavated,
- The site and residential areas were backfilled with 8,276 tons of clean soil and grass seed planted and then the property was restored back to its original configuration,

- On October 2, 2002. U.S. EPA OSC, START, and ERRS demobilized from site

3. Enforcement:

- Enforcement/Cost recovery actions are pending.

B. Planned Removal Activities

- Transport low level lead contaminated soil off-site for disposal.

C. Next Steps

- Cost recovery actions and complete On-Scene Coordinator's Report.

D. Key Issues

- None.

V. COSTS

| | <u>Cost to date</u> | <u>Ceiling</u> | <u>% Remaining</u> |
|--------------|---------------------|------------------|--------------------|
| ERRS | \$338,919 | \$344,866 | %1.7 |
| START | \$15,990 | \$16,500 | %3.1 |
| EPA | \$11,100 | \$27,990 | %60.3 |
| TOTAL | \$366,009 | \$389,356 | %6.0 |

The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor. Other financial data, which the OSC must rely upon, may not be entirely up to date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

VI. DISPOSITION OF WASTES

| Waste stream | Medium | Quantity | Transportation | Treatment | Disposal |
|--------------|--------|------------|----------------|-----------|----------------|
| Lead | Soil | 9,727 Tons | Truck | N/A | Landfill |
| Tires | N/A | 519 | Truck | N/A | Tire recycling |